

EWR XML Requirements

Document Purpose

NHTSA has agreed to support the submission of manufacturers quarterly reporting data in the eXtensible Markup Language (XML) in addition to the Microsoft Excel files. This document provides requirements for file naming conventions, and data formats to ensure that they are properly processed at submittal to NHTSA.

XML Templates

XML templates for each of the reporting types are available on the NHTSA public web site (<http://www-odi.nhtsa.dot.gov>).

XML Validation

Initially, during the test submission phase the XML files submitted by the manufacturer will be validated by NHTSA, using Document Type Definitions (DTD) for each of the EWR reporting categories. These DTDs are available on the NHTSA public web site (<http://www-odi.nhtsa.dot.gov>). It is recommended that manufacturers validate their XML files using the associated DTD prior to submitting to NHTSA.

As the test phase progresses, XML Schemas will be developed to replace the DTD form of validation and these will be made available on the aforementioned web site as well.

File names

File names for the XML files shall be constructed by concatenating the Manufacturer EWR ID, Report Type, Report Year, Report Quarter and Sequence Number. This will enable NHTSA to identify the manufacturer, report type and reporting period, even if the file is corrupted during transmission and cannot be processed. The Manufacturer EWR ID will be a four-digit number supplied by NHTSA. This ID will allow support for up to 9,998 EWR reporting manufacturers (0000 and 9999 are reserved). The sequence number will always be set to '01'

Valid filename values are demonstrated below:

Table 1

Field	Example	Valid Values
Manufacturer ID	6543	0001-9998
Report Type	L	C – Child Restraints H – Medium to Heavy Vehicle and Buses L – Light Weight Vehicle T – Trailers M – Motorcycles R – Tire G – Common Green (Tire) E – Equipment and Low Population Vehicles
Report Year	03	YY format
Report Quarter	1	1-4 (Calendar Quarter) A – Annual H – Historical
Sequence Number	01	01 shall be the default

Example Filename: 6543L03101.xls

Report Information Element

Each XML file shall contain details about the report. This information is contained in an element named “ReportInfo”. ReportInfo element structure is given in Table 2.

Table 2

Element Name	Description
ManufacturerName	Name of the Manufacturer
ReportQuarter	Report Quarter. See Table 1 for valid values
ReportYear	Four digit Year of the reporting period
ReportName	A unique Report Name for each Report Type. Manufacturer may leave this element as an empty element
ReportVersion	Starts with Number 1 and shall be incremented for each data submission for the same reporting period. NHTSA only updates the repository data if the Report Version changes for the same reporting period.
ReportGeneratedDate	Report generated date
ReportContactName	Primary manufacturer contact name
ReportContactEmail	Primary manufacturer contact email address to receive the validation and other communication from NHTSA
ReportContactPhone	Primary manufacturer contact phone number
NHTSATemplateRevisionNo	Revision number assigned by NHTSA for the EWR report data format. Manufacturer may leave this element as an empty element.

Data Specification

In addition to the data definitions and specifications contained within the final rule, the following criteria shall be applied for specifying the data within each file:

- A four-digit year format shall be used for the Model or Product year (Example: 1998). The value 9999 will be used if the year is unknown.
- Date format for all dates shall be in the YYYY-MM-DD format (Example: 2003-12-31)
- Alphabetic characters must be in all caps
- Numeric data cells shall not contain any non-numeric data including commas
- Undefined or unknown non-numeric character data shall be represented by the string "UNK"
- The Manufacturer's Unique ID alphanumeric string (ManUniqueID) column value will be "NA" if not used rather than being left blank. This string should be unique within the file.
- The ID column in Deaths and Injuries must be unique and consecutive in the file beginning at "1"
- Data items shall not be left blank

NHTSA will supply lists of standard values to be used for state codes, country names, and various type codes (Brake Systems, Fuel Systems, Child Restraints).

Data Updates

Updates to data previously submitted will be accomplished by re-submitting the entire updated XML file. The appropriate ReportInfo ReportVersion field shall be incremented for each update.